Affinity Biosciences
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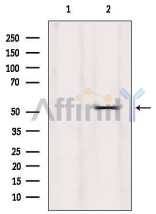
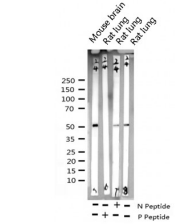
Phospho-GSK3 alpha (Ser21) Ab

Cat.#: AF3336	Concn.: 1mg/ml	Mol.Wt.: 51kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

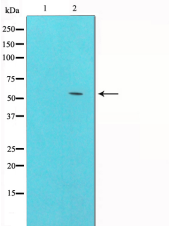
Application:	WB 1:500-1:2000 IHC 1:50-1:200 IP
Reactivity:	Human,Mouse,Rat
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Specificity:	Phospho-GSK3 alpha (Ser21) Ab detects endogenous levels of GSK3 alpha only when phosphorylated at Serine 21.
Immunogen:	A synthesized peptide derived from human GSK3 alpha around the phosphorylation site of Serine 21.
Uniprot:	P49840
Description:	GSK3A a proline-directed protein kinase of the GSK family. Implicated in the control of several regulatory proteins including glycogen synthase, Myb, and c-Jun. GSK3 and GSK3 have similar functions. GSK3 phophorylates tau, the principal component of neurofibrillary tangles in Alzheimer disease and is required for maximal production of amyloid plaque peptides by secretase.
Subcellular Location:	Cytoplasmic and Nuclear
Similarity:	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. GSK-3 subfamily.
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



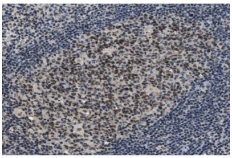
Western blot analysis of extracts from Hybridoma cells, using Phospho-GSK3 alpha (Ser21) Ab. Lane 1 was treated with the blocking peptide.



Western blot analysis of Phospho-GSK3 alpha (Ser21) expression in various lysates



Western blot analysis of GSK3 alpha phosphorylation expression in ovary cancer whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



AF3336 at 1/100 staining human Lymphoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.